

Special Issue

Porous Micro and Nanoparticles for Drug Delivery

Message from the Guest Editors

Although the fields of molecular, biomolecular and supramolecular chemistry and inorganic materials have traditionally been poorly interrelated, research into this cross-disciplinary region has recently emerged almost exponentially and has resulted in a many novel hybrid materials with advanced functions in a surprisingly short time. Among the different inorganic solids, much attention has been given to porous materials in both fundamental and applied research. In this scenario, gated nanochemistry is a highly topical tool that has been applied to the design of new advanced functions by means of mass transport control in nanometric terms. In recent years, gated supports have proven excellent candidates for designing controlled release systems for different applications, including drug delivery and sensing. This issue aims to collect the latest advances and state-of-the-art in the field of controlled drug delivery, using porous nano- or microparticles as drug carriers. The combination of these materials with selective molecular gates, which open only on the site of action as a result of some target stimulus, is expected to improve drug bioavailability and reduce drug toxicity.

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